



$$x = 650t$$

$$y = -16t^2 + 5.5$$

$$y = -16(0.615)^2 + 5.5$$

$$y = -0.552$$

$$t = 0.586$$

$$\frac{400}{650} = \frac{650t}{650}$$

$$t \approx 0.615 \text{ sec}$$

$$0 = -16t^2 + 5.5$$

$$t = \sqrt{\frac{-5.5}{-16}} \approx 0.586 \text{ sec.}$$

$$x = 650(0.586) \approx 381.1 \text{ ft.}$$

$$y = -16t^2 + s_0$$

$$4 = -16(0.615)^2 + s_0$$

$$s_0 = 10.1 \text{ ft.}$$

HW

p. 288

Projectile motion Project.

